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Negatively chargeable toner for sharp coloured images - has charge
controlling agent composed of sulphaalkyl poly(meth)acrylic acid monomer
and another copolymerisable polyvinyl monomer.

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Number of Countries: 002 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| JP 8179564 | A | 19960712 | JP 94334617 | A | 19941220 | 199638 B |
| US 5612161 | A | 19970318 | US 95580056 | A | 19951220 | 199717 |

Priority Applications (No Type Date): JP 94334617 A 19941220

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
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| JP 8179564 | A | | 8 | G03G-009/097 | |
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| US 5612161 | A | | 7 | G03G-009/097 | |
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Abstract (Basic): JP 8179564 A

A charge controlling agent is composed of 1-30 wt.% of sulphaalkyl
(meth) acrylic acid monomer of a specific structure, and 99-70 wt.% of
another copolymerisable vinyl monomer. 0.1-20 pts. wt. (w.r.t. 100 pts.
wt.) of a binding agent of the charge controlling agent is included.

USE - Used as a negatively chargeable toner.

ADVANTAGE - Coloured images of sharp colour tone are formed.

Dwg.0/0

Abstract (Equivalent): US 5612161 A

A negatively chargeable toner for electrophotography, comprising a
binder, a colouring agent and a charge control agent, the charge
control agent comprising a copolymer of 1 to 30% by weight of a
sulphaalkyl (meth)acrylic acid monomer represented by the following
general formula $\text{CH}_2=\text{C}(\text{R}_1)-\text{C}(\text{O})-\text{O}-\text{R}_2-\text{SO}_3\text{M}$ (1), where R1 represents H or
CH3, R2 represents C2H4 or C3H6, and M represents one selected from H,
Na, K and NH4, or $[\text{CH}_2=\text{C}(\text{R}_1)-\text{C}(\text{O})-\text{O}-\text{R}_2-\text{SO}_3]_n-\text{M}(\text{OH})_m$ (2), where R2
represents H or CH3, R2 represents C2H4 or C3H6, M represents Ca or Mg,
n is 1 or 2, and m is 2-n, and 99 to 70% by weight of other vinyl
monomer which is copolymerisable with the monomer (1) or (2), the
amount of the charge control agent being from 0.1 to 10 parts by weight
for 100 parts by weight of the binder.

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Title Terms: NEGATIVE; CHARGE; TONER; SHARP; COLOUR; IMAGE; CHARGE; CONTROL
; AGENT; COMPOSE; SULPHO; ALKYL; METHO; POLYACRYLIC; ACID; MONOMER;

COPOLYMERISE; POLYVINYL; MONOMER

Derwent Class: A14; A89; G08; P84; S06

International Patent Class (Main): G03G-009/097

File Segment: CPI; EPI; EngPI

Manual Codes (CPI/A-N): A04-A; A04-F04; A12-L05C2; G06-G05

Manual Codes (EPI/S-X): S06-A04C1

Polymer Indexing (PS):

<01>

001 018; H0022 H0011; G0328 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53
F36 F35 D11 D58 D61-R D60 D85 D86 D87 F16 F62 Na 1A K-; G0022-R D01
D51 D53; P0088

002 018; ND01; Q9999 Q8639 Q8617 Q8606